

QUARTERLY REPORT

Report Date: 9/11/03	U. S. DOE Federal Project Director's Progress Report	Office of Science
Project Number: 05-R-321	Title: Center for Functional Nanomaterials (CFN)	Program: Basic Energy Sciences
Report Period: 4/1/03 – 6/30/03	Location: Brookhaven National Laboratory (BNL)	Project Office: DOE-BAO

SUMMARY ASSESSMENT

	<u>Current Quarter</u>	<u>Previous Quarter</u>
Cost:	Satisfactory	Satisfactory
Schedule:	Satisfactory	Satisfactory
Technical:	Satisfactory	Satisfactory
Overall:	Satisfactory	Satisfactory

PROJECT MANAGEMENT

DOE Program Manager: Kristin A. Bennett
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 DOE Federal Project Director: Joe Eng
 Phone: 631-344-7982
 Contractor Manager: Bob Hwang
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FUNDING (\$K)

	<u>Baseline</u>	<u>Current Estimate</u>	<u>Funding Received</u>
DOE TEC:	79,700	79,700	988
DOE TPC:	81,000	81,000	1,288
NON DOE:	0	0	0

CRITICAL DECISIONS

<u>Number</u>	<u>Title</u>	<u>Baseline</u>	<u>Actual/Forecast</u>
0	Mission Approved	6/02	6/02 A
1	Alt. Select. & Cost Ran	7/03	7/03 A
2	Perfor. Baseline	3/04	3/04 F
3	Appr. Start of Constr.	12/04	12/04 F
4a	Initial Operations	4/07	4/07 F
4b	Start of Full Operations	4/08	4/08 F

FUNDING PROFILE

Per Latest Approved Budget (FY 2003) in \$K

	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	<u>FY08</u>	Total
TEC:	0	988	3,000	22,012	35,000	18,700	0	79,700
OPC:	300	0	0	0	0	500	500	1,300
TPC:	300	988	3,000	22,012	35,000	19,200	500	81,000

Cumulative through June 30, 2003

	<u>TEC (\$K)</u>	<u>TPC (\$K)</u>
Remaining Contingency:	\$13,065 16.4%	\$13,065 16.1%
Costs Accrued:	\$ 0	\$ 0
Commitments Accrued:	\$ 0	\$ 0

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SCHEDULE SUMMARY

	Start Date		Completion Date		Percent Complete	
	Baseline	Forecast/Actual	Baseline	Forecast/Actual	Baseline	Actual
Design:	7/03	7/03 A	9/04	9/04 F	0%	0%
Conventional Construction:	12/04	12/04 F	4/07	4/07 F	0%	0%
Tech Procurement:	12/04	12/04 F	3/08	3/08 F	0%	0%
Operation:	4/08	4/08 F	--	--	--	--

Milestones Accomplished Since Last Report

	Baseline Date	Actual Date
• CD-1 Approved	7/03	7/03

Key Milestones Upcoming (Next Three Months)

	Baseline Date	Forecast Date
• A/E to initiate preliminary design		

NARRATIVE HIGHLIGHTS

DESCRIPTION

The Center for Functional Nanomaterials (CFN) is a new user facility located in close proximity to the existing National Synchrotron Light Sources (NSLS) within the core area of Brookhaven National Laboratory (BNL). This new building will consist of Laboratories and offices totaling approximately 85,000SF. The Laboratories will be designed and constructed to meet low electromagnetic field, vibration, and acoustic noise requirements to accommodate specialized research equipment. The project scope will include equipment necessary to synthesize, manipulate, and characterize nanoscale materials and structures. The location and functions for this facility will provide the support and services to broaden the user base in the area of Nanotechnology in the Northeast.

STATUS

Critical Decision (CD-1) presentation was made to the ESAAB June 12, 2003. The Integrated Project Team revised documents to comply with the new DOE Manual 413.3-1. CD-1 was approved Jul 23, 2003. Architect/Engineer HDR has started program validation with the Cluster Leaders to establish design criteria for the Laboratories. Vibration consultant has taken site readings from several sites to evaluate the best location for the building. Preparation to initiate topographic survey in progress. Capacity of utilities are being evaluated and confirmed. WBS dictionary under development, resource loaded schedule to follow.

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BACKUP INFORMATION

Baseline Document

Acquisition Strategy approved by R. L. Orbach, July 23, 2003

CD-1 Document, approved by P. M. Dehmer, July 23, 2003 as the Acquisition Executive

Preliminary Project Execution Plan approved by P. M. Dehmer, August 13, 2003

Alternate Cost Status Report (earned value TEC and TPC) as of June 2003 (\$K)

WBS Item	Contractor	Task Description	Cumulative to Date			At Completion		
			BCWS	BCWP	ACWP	Budget	Contractor Estimate	Proj Manager Estimate
1.1		Project Support				8,389	8,389	8,389
1.2		Technical Equipment				30,011	30,011	30,011
1.3		Conventional Facilities				27,014	27,014	27,014
1.4		Standard Equipment				1,221	1,221	1,221
		Contingency				13,065	13,065	13,065
TEC		TEC				79,700	79,700	79,700
OPC		Operating				1,300	1,300	1,300
TPC		TPC				81,000	81,000	81,000
Cumulative:			SPI =			CPI =		

Change Control Activity (3rd Quarter FY03)

Level 0—None

Level 1—None